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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------------|----------------------|-------------------------|------------------|
| 10/763,058 | 01/22/2004 | Hiroshi Uno | 1990.69202 3718 | |
| 24978 75 | 590 03/17/2006 | | EXAMINER | |
| GREER, BURNS & CRAIN 300 S WACKER DR | | | KAPADIA, VARSHA A | |
| 25TH FLOOR | | ART UNIT | PAPER NUMBER | |
| CHICAGO, IL | CHICAGO, IL 60606 | | | |
| | | | DATE MAILED: 03/17/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--|---|--|--|--|--|--|
| | 10/763,058 | UNO ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Varsha A. Kapadia | 2651 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI | I. ely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| <u> </u> | Responsive to communication(s) filed on <u>03 January 2006</u> . | | | | | |
| , | · | | | | | |
| | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-6 is/are allowed. 6) ☐ Claim(s) 7-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or | vn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the c | epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | 4) 🔲 Interview Summary | (PTO-413) | | | | |
| 2) Notice of Preferences Cited (PTO-032) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | Paper No(s)/Mail Da | | | | | |

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This office action is responsive to the communication filed on 01/03/06.

Rejection Under 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Reed et al (5,961,658).

With regards to claim 7, Reed et al discloses a signal processing method utilizing a partial response to record information on a medium and then regenerate the information from the medium (see fig. 2 and disclosure thereof), wherein a signal recorded on the medium is subjected to the convolution of (1-D) where D is a bit delay operator (See fig.6 element 152 disclosure thereof and col.11 lines 59-67); a regeneration signal from the medium is subjected to an equalizing process including the convolution of (k-s*D).(1+D)^n (see the paragraph bridging cols. 6 and 7; wherein k and s are considered to be 1).

With regards to claim 8, Reed et al discloses that the information is decoded from the equalized signal (see fig.2 elements 74,88 and 92 and disclosure thereof).

With regards to claims 9-12, the apparatus limitations recited in claims 9-12 and similar to the method limitations recited in claims 7-8. Therefore the rejection applied to method claims 7-8 above in this office action is herein repeated for the same reasons of anticipation.

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Allowable Subject Matter

Claims 1-6 are allowed.

Applicant's claimed invention differs from the prior art of the record for the same reasons recited in the office action mailed on August 26, 2005.

Response to Remarks

Applicant's arguments filed on January 3, 2006 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "(1-D) in claims 7,9, and 11 are within the main paths of the demodulating circuit" and argued that "The Filter 152 of (1-D) in Reed is not present in the main paths of the demodulating circuit, but is present in the REMOD 138") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant further argue that the convolution of (1-D) and (1+D) relied upon "corresponds to k=s=1, in claims 7,9 and 11. As seen above, n=2 in Reed. Thus, Reed does not anticipate claims 7,9 and 11 because n is a positive integer other than 2 in claim 7". Examiner respectfully disagree because applicant has not specify in claims 7,9 or 11 that k is not = s. Furthermore, as defined by Reed in the paragraph bridging cols. 6 and 7, n is not limited to 2.

Rejection applied to claims is therefore considered proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Varsha A. Kapadia whose telephone number is (571) 272-7557. The examiner can normally be reached on Mon Tue and Thurs. from 6:30 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on 571 272 4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



